

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	"194"/\$.ccls. validation electronic with lock @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2008/05/19 13:58
L2	34	"194"/\$.ccls. validation electronic lock @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2008/05/19 13:58
L3	50	"194"/\$.ccls. validation electronic lock	US-PGPUB; USPAT; JPO	AND	ON	2008/05/19 13:59
L4	6	"194"/\$.ccls. validation electronic with lock	US-PGPUB; USPAT; JPO	AND	ON	2008/05/19 13:59
S1	49	(US-20050006198-\$ or US-20020130175-\$ or US-20040033832-\$ or US-20050006457-\$ or US-20050035193-\$ or US-20050087424-\$ or US-20060000890-\$ or US-20060020540-\$). did. or (US-6000520-\$ or US-5727667-\$ or US-4369442-\$ or US-4854247-\$ or US-5547062-\$ or US-5718318-\$ or US-6048269-\$ or US-5316124-\$ or US-4033588-\$ or US-4809837-\$ or US-4809966-\$ or US-4851651-\$ or US-5005688-\$ or US-5007649-\$ or US-5232077-\$ or US-5365046-\$ or US-5404987-\$ or US-5420406-\$ or US-5462149-\$ or US-5628684-\$ or US-5635701-\$ or US-5641157-\$ or US-5661781-\$ or US-5662201-\$ or US-5662202-\$ or US-5725081-\$). did. or (US-5742034-\$ or US-5759102-\$ or US-5806649-\$ or US-5883371-\$ or US-5884913-\$ or US-	US-PGPUB; USPAT	AND	ON	2006/12/13 06:18

		5905521-\$ or US- 5909792-\$ or US- 5984074-\$ or US- 6059090-\$ or US- 6123223-\$ or US- 6125988-\$ or US- 6135887-\$ or US- 6394907-\$ or US- 6796491-\$ or US- 7014106-\$).did.				
S2	165	194/302.ccls.	US-PGPUB; USPAT; JPO	AND	ON	2006/12/12 17:13
S3	77	194/302.ccls. @py< "2003"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:08
S4	2	194/302.ccls. @py< "2003" encod\$3	US-PGPUB; USPAT; JPO	AND	ON	2006/12/12 17:16
S5	47	(US-20050006198-\$ or US-20020130175-\$ or US-20040033832-\$ or US-20050006457-\$ or US-20050035193-\$ or US-20050087424-\$ or US-20060000890-\$ or US-20060020540-\$). did. or (US-6000520-\$ or US-5727667-\$ or US- 4369442-\$ or US- 4854247-\$ or US- 5547062-\$ or US- 5718318-\$ or US- 6048269-\$ or US- 5316124-\$ or US- 4033588-\$ or US- 4809837-\$ or US- 4809966-\$ or US- 4851651-\$ or US- 5005688-\$ or US- 5007649-\$ or US- 5232077-\$ or US- 5365046-\$ or US- 5404987-\$ or US- 5420406-\$ or US- 5462149-\$ or US- 5628684-\$ or US- 5635701-\$ or US- 5641157-\$ or US- 5661781-\$ or US- 5662201-\$ or US- 5662202-\$ or US- 5725081-\$).did. or (US- 5742034-\$ or US- 5759102-\$ or US- 5806649-\$ or US- 5883371-\$ or US- 5884913-\$ or US-	US-PGPUB; USPAT	AND	ON	2006/12/13 06:19

		5905521-\$ or US- 5909792-\$ or US- 5984074-\$ or US- 6059090-\$ or US- 6123223-\$ or US- 6125988-\$ or US- 6135887-\$ or US- 6394907-\$ or US- 6796491-\$ or US- 7014106-\$).did. @py< "2003"				
S6	40	((US-20050006198-\$ or US-20020130175-\$ or US-20040033832-\$ or US-20050006457-\$ or US-20050035193-\$ or US-20050087424-\$ or US-20060000890-\$ or US-20060020540-\$). did. or (US-6000520-\$ or US-5727667-\$ or US- 4369442-\$ or US- 4854247-\$ or US- 5547062-\$ or US- 5718318-\$ or US- 6048269-\$ or US- 5316124-\$ or US- 4033588-\$ or US- 4809837-\$ or US- 4809966-\$ or US- 4851651-\$ or US- 5005688-\$ or US- 5007649-\$ or US- 5232077-\$ or US- 5365046-\$ or US- 5404987-\$ or US- 5420406-\$ or US- 5462149-\$ or US- 5628684-\$ or US- 5635701-\$ or US- 5641157-\$ or US- 5661781-\$ or US- 5662201-\$ or US- 5662202-\$ or US- 5725081-\$).did. or (US- 5742034-\$ or US- 5759102-\$ or US- 5806649-\$ or US- 5883371-\$ or US- 5884913-\$ or US- 5905521-\$ or US- 5909792-\$ or US- 5984074-\$ or US- 6059090-\$ or US- 6123223-\$ or US- 6125988-\$ or US-	US-PGPUB; USPAT	AND	ON	2006/12/13 06:47

		6135887-\$ or US-6394907-\$ or US-6796491-\$ or US-7014106-\$).did.) @py< "2003"				
S7	1	"20050006198"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 06:38
S8	3	"20040223147" "20040238614" "20050194233"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/13 06:45
S9	21	S6 "194"/\$.ccls.	US-PGPUB; USPAT	AND	ON	2006/12/13 07:27
S10	19	S6 not S9	US-PGPUB; USPAT	AND	ON	2006/12/13 08:17
S11	164	194/302.ccls.	US-PGPUB; USPAT	AND	ON	2006/12/13 08:17
S12	8	194/302.ccls. @py< "2003" power storage	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:38
S13	19	194/302.ccls. @py< "2003" storage	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:09
S14	452	"194"/\$.ccls. @py< "2003" power storage	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:40
S15	61	"194"/\$.ccls. @py< "2003" power storage validation	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:40
S16	60	"194"/\$.ccls. @py< "2003" power storage validation not S13	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 09:40
S17	117	"194"/\$.ccls. @py< "2003" power storage validat\$3 not S13	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 11:14
S18	112	"194"/\$.ccls. @py< "2003" power storage validat\$3 not S13 control\$3	US-PGPUB; USPAT; JPO	AND	ON	2006/12/13 11:14
S19	8	"5251235".pn. "5012075".pn. "6315279".pn. "4992648".pn. "5458285".pn. "4337393".pn. "20030000957" "20010054643"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/14 13:30

S20	8	"5251235".pn. "5012075".pn. "6315279".pn. "4992648".pn. "5458285".pn. "4337393".pn. "20030000957" "20010054643"	US-PGPUB; USPAT; JPO	OR	ON	2006/12/14 13:30
S23	20	("4337393").URPN.	USPAT	AND	ON	2006/12/14 16:18
S24	24	"return to zero"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:00
S26	34394	RZ	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:00
S28	18	NRZ "382"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:01
S29	620	NRZ "341"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:01
S30	275	NRZ "341"/68.ccls. or 341/69.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:01
S31	264	NRZ "341"/68.ccls. or 341/69.ccls. @py<"2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/12/27 11:01
S32	4	"194"/\$.ccls. validation storage adj unit electronic	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 11:30
S33	169	"194"/\$.ccls. validation storage	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 11:30

S34	125	"194"/\$.ccls. validation storage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 11:30
S35	40	"194"/\$.ccls. validation storage @py<"2004" power communicat\$3	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:40
S36	361252	"194"/\$.ccls. LED or diode @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:40
S37	2900	"194"/\$.ccls. LED or diode @py<"2004" validation	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:40
S38	1412	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:41
S39	1130	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:41
S40	939	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal (power with supply)	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:41
S41	668	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal (power with supply) communication with unit	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:42
S42	548	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal (power with supply) communication with unit "money storage unit"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:42
S44	548	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal (power with supply) communication with unit "money storage unit" lid	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:43
S45	548	"194"/\$.ccls. LED or diode @py<"2004" validation capacitor terminal (power with supply) communication with unit "detachable money storage unit" lid	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:44

S46	0	"194"/\$.ccls. (LED or diode) @py<"2004" validation capacitor terminal (power with supply) communication with unit "detachable money storage unit" lid	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:44
S47	0	"194"/\$.ccls. (LED or diode) @py<"2004" validation capacitor terminal (power with supply) communication with unit "detachable money storage unit"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:44
S48	0	"194"/\$.ccls. (LED or diode) @py<"2004" validation capacitor terminal (power with supply) communication with unit "money storage unit"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:44
S49	0	"194"/\$.ccls. (LED or diode) @py<"2004" validation capacitor terminal (power with supply) communication with unit	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:44
S50	17	"194"/\$.ccls. (LED or diode) @py<"2004" validation capacitor terminal (power with supply)	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:46
S51	6	"194"/\$.ccls. "validation unit"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:47
S52	369	"194"/\$.ccls. validation	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:59
S53	169	"194"/\$.ccls. validation storage	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:59
S54	125	"194"/\$.ccls. validation storage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 13:59
S55	28	"194"/\$.ccls. validation storage @py<"2004" electric	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 14:00
S56	117	"194"/\$.ccls. connection with terminal	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 14:37
S57	52	"194"/\$.ccls. connection with terminal diode	US-PGPUB; USPAT; JPO	AND	ON	2006/12/27 14:37

S58	49	"194"/\$.ccls. connection with terminal diode signal	US-PGPUB; USPAT; JPO	AND	ON	2006/12/28 09:29
S59	83	"194"/\$.ccls. terminal with diode	US-PGPUB; USPAT; JPO	AND	ON	2006/12/28 09:30
S60	81	"194"/\$.ccls. terminal with diode @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/28 11:01
S61	75	"194"/\$.ccls. terminal with diode @py<"2004" signal	US-PGPUB; USPAT; JPO	AND	ON	2006/12/28 11:01
S62	21	"194"/\$.ccls. (terminal with diode) with signal @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2006/12/28 11:01
S63	56	"194"/\$.ccls. @py<"2004" validation control with unit	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 09:33
S64	6	d360228	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 07:30
S65	0	"29023371".ap.	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 07:30
S66	0	"29023391".ap.	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 07:31
S67	7	"023391".ap.	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 07:31
S68	10	"194"/\$.ccls. validation (control with unit) with storage	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 09:36
S69	15	"194"/\$.ccls. validation communication with storage	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 09:36
S70	9	"194"/\$.ccls. validation communication with storage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 10:10
S71	14	"194"/\$.ccls. validation power with storage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 11:19
S72	34	"194"/\$.ccls. validation electronic lock @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 11:20
S73	5	"194"/\$.ccls. validation electronic with lock @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 12:50
S74	3	"4851652".pn. or "4916443".pn. or "4988987".pn.	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 11:23
S75	1	"194"/\$.ccls. validation electronic with lid @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 12:51



S76	12	"194"/\$.ccls. validation electronic lid @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 13:13
S77	3	"194"/\$.ccls. electronic with lid @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 13:14
S78	8	"194"/\$.ccls. LED phototransistor impedance @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:00
S79	39	"194"/\$.ccls. LED phototransistor current voltage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:00
S80	43	"194"/\$.ccls. LED phototransistor voltage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:20
S81	9	"194"/\$.ccls. (LED phototransistor) with voltage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:42
S82	59	"194"/\$.ccls. diode capacitor regulator	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:42
S83	57	"194"/\$.ccls. diode capacitor regulator @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/03 14:43
S84	8	"5251235".pn. "5012075".pn. "6315279".pn. "4992648".pn. "5458285".pn. "4337393".pn. "20030000957" "20010054643"	US-PGPUB; USPAT; JPO	OR	ON	2007/01/04 07:51
S85	4	S84 (encode or program)	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 07:49
S87	0	S84 NRZ	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 07:51
S88	9741	NRZ	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/04 07:51
S89	3	"194"/\$.ccls. S88	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/01/04 08:18

S90	12	"5091713".pn. "5909502".pn. "6039645".pn. "6463528".pn. "6296182".pn. "5955718".pn. "5919091".pn. "5635696".pn. "5630755".pn. "5495098".pn. "5450938".pn. "5038022".pn.	US-PGPUB; USPAT; JPO	OR	ON	2007/01/04 08:49
S91	2	"7134009".pn. "7152783".pn.	US-PGPUB; USPAT; JPO	OR	ON	2007/01/04 08:49
S92	1	"6896116".PN.	USPAT; USOCR	AND	ON	2007/01/04 09:14
S93	1	"20020063035".PN.	US-PGPUB	AND	ON	2007/01/04 09:36
S95	8212	NRZ	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 09:37
S96	3142	S95 encod\$3 decod\$3	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 09:41
S98	536	NRZ with (encod\$3 decod\$3) @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 09:43
S99	352	NRZ with (encod\$3 with decod\$3) @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 09:44
S100	3	(NRZ RZ) with (encod \$3 with decod\$3) @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 09:44
S101	1	"194"/\$.ccls. polarity with normalization	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 10:45
S102	50	polarity with normalization	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 10:45
S103	45	polarity with normalization @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 10:45
S104	9	"194"/\$.ccls. diode adj bridge @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:27
S105	148	"194"/\$.ccls. rectifier @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:32
S106	19	"194"/\$.ccls. rectifier @py<"2004" validation	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:38
S107	0	"194"/\$.ccls. rectifier with normaliz\$4 @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:39
S108	2	"194"/\$.ccls. rectifier normaliz\$4 @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:39

S109	70	"194"/\$.ccls. rectifier with voltage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:52
S111	25	"194"/\$.ccls. ((bridge adj rectifier) or (diode adj bridge)) @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 14:53
S112	57	"194"/\$.ccls. diode capacitor regulator @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 16:39
S113	7	"194"/\$.ccls. (diode with capacitor with regulator) @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 16:56
S114	16	"194"/\$.ccls. diode with capacitor with filter @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/01/04 16:56
S115	1	(US-20020063035-\$). did.	US-PGPUB	AND	ON	2007/11/14 11:39
S116	0	S115 ("104" with power)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/14 11:40
S117	0	S115 ("110" with power)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/14 11:40
S118	0	S115 ("310" with power)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/14 11:40
S120	12	(US-20020048067-\$ or US-20040033832-\$ or US-20020063035-\$ or US-20030000957-\$ or US-20030230464-\$). did. or (US-6163603-\$ or US-5788046-\$ or US-5544728-\$ or US-3806651-\$ or US-6513639-\$ or US-5615625-\$ or US-6264556-\$). did.	US-PGPUB; USPAT	AND	ON	2007/11/14 14:26
S121	1	S120 (pulse with signal)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/14 14:26
S122	14	"194"/\$.ccls. validation power with storage @py<"2004"	US-PGPUB; USPAT; JPO	AND	ON	2007/11/19 10:51
S123	5	S122 (pulse with signal)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 11:00
S124	1	"6845905".pn.	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 11:00

S125	13	("5234209"   "5593149"   "5606157"   "5774876"   "5781442"   "5804804"   "5869819"   "5920287"   "6014649"   "6032127"   "6125307"   "6128550"   "6264556").PN. OR ("6845905").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2007/11/19 11:01
S126	2	S125 (pulse with signal)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 11:04
S127	156	"194"/\$.ccls. (power with signal) (pulse with signal)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 14:44
S128	36	"194"/\$.ccls. (power with signal with pulse)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 14:51
S129	149	"194"/\$.ccls. (pulse adj signal)	US-PGPUB; USPAT; USOCR; JPO	AND	ON	2007/11/19 14:51

5/ 19/ 2008 2:55:32 PM

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